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# A new species of *Anisostena* (*Anisostena*) from Colombia (Coleoptera: Chrysomelidae: Cassidinae)

# CHARLES L. STAINES

Department of Entomology, MRC 187, National Museum of Natural History, Smithsonian Institution, P. O. Box 37012, Washington, DC 20013-7012, United States, stainesc@si.edu

Abstract. Anisostena (Anisostena) warchalowskii STAINES, new species, is described from Colombia. The species is illustrated and a revised key to the species of the nigrita-species group is presented.

Key words: entomology, taxonomy, Coleoptera, Chrysomelidae, Cassidinae, *Anisostena*, new species, Colombia.

#### INTRODUCTION

The genus *Anisostena* Weise 1910 contains 25 described species and is found from Canada to Argentina (Staines 2002). The genus was revised by Staines (1993, 1994a, b, c) and keys to the species were provided.

In a box lot of material collected during the Colombian Arthropod Project (http: www.uky.edu/%7Emjsharo/colombia) the following new species was discovered. Only three species of *Anisostena* are known from Colombia: *A. bellula* (BALY) which has a red pronotum, *A. promta fasciata* MAULIK and *A. promta promta* WEISE which are vittate (STAINES 1994a, b). *Anisostena pilatei* (BALY) is known from Panama and *A. vittata* STAINES is known from Ecuador but both species are also vittate.

For this study, measurements were taken with an ocular micrometer. Pronotal length and width were measured along the midlines. Elytral width was measured at the humeri. Elytral length was measured from the base to the apex along the midline. Total length was measured from the base of the antennae to the apex of the elytra. In recording label data from type specimens, a slash (/) separates data on different labels; brackets ([]) include explanatory or label color information.

# Anisostena (Anisostena) warchalowskii Staines, new species Figure 1

Type material.

**Holotype** (♀): Colombia, Cuaca, PNN Gorgona Mancora, 2°58'N 78°11'W, 60 m, Red [sweeping], 2.iii.2000, D. Campos Leg., M.3603/ Holotype Anisostena warchalowskii Staines 2007 [red label] (IVAH).

## DESCRIPTION

Small; blue-black; shining; elytra with interspace 3 reddish for basal 1/4 (only visible under intense light). Head: vertex alutaceous, with a few fine punctures between eyes; faint medial fovea with faint medial sulcus; interantennal keel extends onto head; sulcus on inner margin of each eye; frons slightly projecting; clypeus punctate, with row of setae on apex. Antenna: antennomere I subglobose, with scattered punctures. more shining than others; II subequal in length to I, cylindrical; III cylindrical, 1.25 times length of II; IV-VI transverse, IV longer the V or VI, VI-VI subequal in length; VII-X transverse, subequal in length, wider than preceding; XI obliquely pointed at apex, longer than X; II-VI punctate with setae; VII-XI setose. Pronotum: lateral margin divergent for basal 3/3, then rounded and convergent to apex; anterior angle with small rounded tooth; posterior angle acute, pointed; convex; densely coarsely punctate laterally and basally; disc and anterior margin sparsely coarsely punctate; transverse basal impression present; pronotal length 0.7 mm; pronotal width 0.9 mm. Scutellum: quadrate; punctate. Elytron: lateral margin dentate; exterior apical angle rounded, dentate; apical margin finely serrate; humerus rounded, produced; punctures in regular rows; interspaces 2, 4, and 6 costate, interspace 6 most produced; elytral



1. Habitus of Anisostena warchalowskii

length 2.6 mm; elytral width 1.1 mm. Venter: pro- and mesosterna punctate medially, alutaceous laterally; metasternum smooth except for row of punctures around coxal cavity; abdominal sternite 1 with two rows of setae, all others with single row near apex. Leg: mesofemur not serrate on inner margin; femur punctate; tibia alutaceous. Total length: 3.4 mm.

#### ETYMOLOGY

Named for Andrzej Warchałowski in recognition of his long and productive career working on chrysomelids.

## COMPARATIVE NOTES

Anisostena warchalowskii falls in the subgenus Anisostena because costae of elytral interspaces 2 and 6 unite on the apical fifth (STAINES 1993) and nigrita-species group (STAINES 1994a) because of the unicolorous dorsum. It differs from all other species by the following combination of characters: mesofemur not serrate on inner margin; antennomeres I and II are subequal in length; antennomeres I-VI are punctate, II-VI with setae; pronotum with disc nearly impunctate; and lateral margins of elytra dentate.

DISTRIBUTION Colombia.

HOST PLANTS Unknown

#### AMENDED KEY TO THE SPECIES OF THE NIGRITA-SPECIES GROUP

1(0).	Mesofemur serrate on inner margin
	Mesofemur not serrate on inner margin
2(1).	Frons projecting; pronotum with basal impression
	Frons not projecting; pronotum without basal impression
3(2).	Lateral margins of elytra serrate; antennomeres I-VI punctate
	Lateral margins of elytra smooth; antennomeres I-VI glabrous
	funesta (BALY)
4(1).	Frons projecting
	Frons not projecting5.
5(4).	Pronotum without basal impression; anterior angle without tooth
	Pronotum with basal impression; anterior angle with tooth
6(5).	Vertex of head with scattered punctures
	Vertex of head with row of punctures on each side of medial sulcus
	cvanea Staines

7(6). Antennomeres II-III subequal in length; pronotum with disc imp	punctate
dag	<i>guerrei</i> Uhmann
Antennomere III longer than II; pronotum with punctures on dis	
	nigrita (Olivier)

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#### REFERENCES

- STAINES, C. L. 1993. A revision of the genus Anisostena Weise (Coleoptera: Chrysomelidae, Hispinae). Part I. Introduction and the subgenera Neostena and Apostena. Insecta Mundi, 7: 183-190.
- —, 1994a. A revision of the genus Anisostena Weise (Coleoptera: Chrysomelidae, Hispinae). Part II. The subgenus Anisostena: Key to the species groups and the ariadne species group. Insecta Mundi, 8: 125-135
- —, 1994b. A revision of the genus *Anisostena* Weise (Coleoptera: Chrysomelidae, Hispinae). Part III. The pilatei species group. Insecta Mundi, 8: 213-226.
- —, 1994c. A revision of the genus Anisostena Weise (Coleoptera: Chrysomelidae, Hispinae). Part IV. The nigrita species group. Insecta Mundi, 8: 251-264.
- —, 2002. The New World tribes and genera of hispines (Coleoptera: Chrysomelidae: Cassidinae). Proc. Entomol. Soc. Washington, 104(3): 721-784.